Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO Application Number 10/597307 Filing Date 19 July 2006 INFORMATION DISCLOSURE First Named Inventor Marziali et al. STATEMENT BY APPLICANT Art Unit n/a (Use as many sheets as necessary) **Examiner Name** n/a U008 0685 Sheet 1 Attorney Docket Number

Examiner	Cite	Document Number	T DOCUMENTS  Name of Patentee or	ntee or Pages, Columns, Lines, Where		
Initials*	No.1	Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
		<sup>US-</sup> 5938904	08-17-1999	Bader et al.		
		<sup>US-</sup> 6146511	11-14-2000	Slater et al.		
		<sup>US-</sup> 6193866	02-27-2001	Bader et al.		
		US-				
		US-				
	··	US-				
		US-				
		US-				
-		US-				
		US-				
		US-			1	
		US-				
•		US-				
		US-				
		US-			•	
		US-				
		US-				
		US-				
		US-	<u> </u>			

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	ľ		
						L		
						L		
						L		
		<u> </u>						

Examiner	Date	
Signature	Considered	

- I

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document with the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

	te for form 1449/PTO			Complete if Known		
				Application Number	10/597307	
INFORMATION DISCLOSURE				Filing Date	19 July 2006	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Marziali et al.	
(Use as many sheets as necessary)			······································	Art Unit	n/a	
			recessary)	Examiner Name	n/a	
Sheet	2	of	2	Attorney Docket Number	U008 0685	

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
,	1	ASTUMIAN et al., Fluctuation Driven Ratchets: Molecular Motors; Departments of Surgery and Biochemistry and Molecular Biology, University of Chicago; 14 March 1994	
	2	BIER et al., Biasing Brownian Motion in Different Directions in a 3-State Fluctuating Potential; Department of Surgery, University of Chicago; 27 May 1996	
	3	FRUMIN et al., Nonlinear Focusing of DNA Macromolecules; Proteologics (Israel) Ltd., Rehovot, Israel; 2002	
	4	GREISS et al., Cyclic Capillary Electrophoresis; Department of Biochemistry, University of Texas, San Antonio, Texas; 15 November 2001	
	5	MAGNASCO, Marcelo O., Forced Thermal Ratchets; NEC Research Institute, Princeton, NJ and The Rockerfeller University, New York, NY; 6 September 1993	
	6	SLATER et al., The Theory of DNA Separation by Capillary Electrophoresis; Department of Physics, University of Ottawa, Ontario, Canada; Printed in "Current Opinion" 2003	
	7	CHACRON et al., Particle Trapping and Self-Focusing in Temporally Asymmetric Ratchets; University of Ottawa, Ontario, Canada; "The American Physical Society" September 1997	
	8	TESSIER et al., Strategies for the Separation of Polyelectrolytes based on Non-Linear Dynamics and; Department of Physics, University of Ottawa, Ontario, Canada, 2002	

Examiner	Date	
Signature	 Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

examiner: Initial if reference considered, whether or not distation to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.